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SUBJECT: INTERNATIONAL PARTNERSHIP FOR THE HYDROGEN ECONOMY
STEERING COMMITTEE MEETING IN PARIS, 26-28 JANUARY 2005: THE
HYDROGEN ECONOMY MOVES AHEAD

1. Summary: The International Partnership for the Hydrogen Economy (IPHE) Steering Committee (SC) convened in Paris, France from January 26 to 28, 2005. The IPHE SC was co-chaired by Assistant Secretary of Energy David Garman and Assistant Secretary of Transportation Emil Frankel. All IPHE members participated in the meeting including Australia, Brazil, Canada, China, European Commission, Germany, France, Iceland, India, Italy, Japan, Korea, Norway, Russia, United Kingdom, and the U.S. The IPHE Steering Committee members successfully addressed three major issues at the Paris meeting: 1) IPHE membership applications; 2) collaborative projects and events; and 3) stakeholder involvement in IPHE. Hydrogen production from nuclear energy pathways was the technical theme of the SC meeting. Member reports and technical presentations offered at the meeting, as well as other IPHE documents, can be found at the web site: www.iphe.net. The IPHE Implementation and Liaison Committee (ILC) will convene from March 22 to 23, 2005, in Rio de Janeiro, Brazil. The next IPHE Steering Committee meeting will take place in Kyoto, Japan, from September 14 to 15, 2005. End summary.

Background

2. Representatives from Australia, Brazil, Canada, China, European Commission (EC), France, Germany, Iceland, India, Italy, Japan, Korea, Norway, Russia, UK and the U.S. created the IPHE in November 2003 as a mechanism to coordinate hydrogen and fuel cell technology research, development demonstration and deployment. The IPHE is governed by Terms of Reference. IPHE countries share a common interest in pre-competitive research and development cooperation that will support the future deployment of hydrogen and fuel cell technologies. Building a safe, efficient and economical world-wide infrastructure for hydrogen production, storage, transport, distribution and use is a challenge that will require the best planning and expertise from around the world. International cooperation will also help countries to more efficiently achieve national hydrogen and fuel cell technology program goals for both transportation systems and stationary applications. For more information on the IPHE visit www.iphe.net.

3. The IPHE Steering Committee (SC) is co-chaired by U.S. DoE Assistant Secretary David Garman and U.S. DoT Assistant Secretary Emil Frankel. The co-chairs were elected in

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November 2003. The IPHE Implementation-Liaison Committee (ILC) is co-chaired by Prof. Thorsteinn Sigfusson of Iceland and Dr. Hanns Joachim Neef of Germany. The IPHE Secretariat is staffed and supported by the U.S. DoE, DoT, State and AID. Dr. Robert Dixon is Executive Director of the IPHE Secretariat. Dr. Dixon can be contacted at iphe@ee.doe.gov.

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IPHE Steering Committee Meeting Summary

4. The overall SC meeting tone was collegial and cooperative. Each IPHE member was constructive and helpful in a team effort to advance the overall IPHE agenda. The GOF officials, together with their private sector partners, were gracious hosts. As the IPHE representatives departed Paris, there was a sense of purpose and accomplishment.

5. IPHE Secretariat and IPHE ILC reports: The IPHE Secretariat offered an extensive report regarding their 2004

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activities and accomplishments, including technical assistance, training, hydrogen technology vision and roadmap activities in Brazil, China and India, communication and outreach, technical and policy publications, web site expansion and other topics. Recently, the IPHE Secretariat

established a world atlas of hydrogen and fuel cell activities that tracks over 400 major projects in countries around the world.

16. IPHE ILC Co-Chairs Prof. Sigfusson and Dr. Neef offered an excellent written and oral report regarding 2004 ILC activities and accomplishments. The co-chairs presented a vision and workplan for 2005 that focused on project development, analysis products, seminal workshops and conferences, and research and development accomplishments.

17. IPHE Membership: The IPHE Secretariat received membership applications from three countries: Denmark/Greenland, New Zealand, and South Africa as well as from two NGOs: Partnership to Advance the Hydrogen Economy (PATH) and the Russian Hydrogen Energy Association. Applications for IPHE membership should address the following criteria: substantial, long-term resource commitments to hydrogen and fuel cell technology research and development activities; well-defined vision and national strategy to advance technology deployment and infrastructure development; and commitment reflected in policies and strategies that effectively advance private sector development of a hydrogen economy. Following a review of all the country membership applications, the IPHE Steering Committee decided to admit New Zealand under section 4.2 of the IPHE Terms of Reference. The applications of Denmark/Greenland and South Africa were not approved by the SC because they were incomplete and did not address membership criteria. The IPHE Secretariat was instructed by the SC to contact the applicants, convey the decisions of the Steering Committee, and work with officials from Denmark/Greenland and South Africa to improve and expand their application materials. The applications of the two NGOs, PATH and Russian Hydrogen Association, were not accepted because there is no provision in the IPHE Terms of Reference for non-governmental bodies. The NGOs were referred to the IPHE ILC.

18. Stakeholder Participation in IPHE activities and events: After approximately one year of discussion and negotiation, a plan was crafted to guide stakeholder relations with IPHE members. The IPHE SC reviewed the draft plan at their meeting and, after considerable discussion, it was approved. The four major elements of the plan include: implement an expanded, interactive IPHE web site; establish a list of key stakeholders drawn from all IPHE members and use this list for periodic announcements of IPHE activities, accomplishments, reports and newsworthy information; establish a list of stakeholder associations that could be official observers at IPHE meetings and events; and, as appropriate, convene Ministerials, Steering Committee, Implementation-Liaison Committee meetings and activities that focus on stakeholder needs and interests. The Steering Committee referred this plan to the IPHE Secretariat and the IPHE ILC for execution.

19. IPHE Scoping Papers: Over the past 15 months, five scoping papers were drafted, reviewed and refined by IPHE members to help define the technical and policy scope of IPHE activities. The five papers addressed the following topics: hydrogen production; hydrogen storage; collaborative fuel cell research and development; regulations, codes and standards; and socio-economics of hydrogen. The SC agreed to publish the five IPHE scoping papers as living discussion documents. The scoping papers will be placed on the public section of the IPHE website.

10. IPHE Collaborative Projects and Events: After approximately seven months of discussion, negotiation and multiple revisions, a plan and process were drafted to facilitate development and recognition of IPHE projects and events. The SC approved the plan with minor changes and directed the IPHE ILC to begin immediate execution of the plan. The ILC will convene in Brazil from March 22 to 23, 2005, to develop, organize and refine official IPHE projects for consideration by the SC. The SC authorized and empowered the IPHE ILC to review applications for collaborative events (e.g., workshops, conferences) with other organizations. A number of governmental and private sector organizations around the world have requested a closer working relationship with IPHE. The IPHE logo, in a short period of time, has developed a strong brand name.

11. IPHE Productivity and Metrics: The IPHE Secretariat introduced a discussion paper to SC members that addressed the need to develop quantitative and qualitative metrics of IPHE accomplishments and productivity. The SC referred the discussion paper to the IPHE ILC for their review and comment. This paper, consistent with the goals of President Bush's Management Agenda, will help ensure that IPHE produces high-quality, focused, timely products that accelerate development of the hydrogen economy.

12. IPHE Member Reports: A total of 44 technical and policy presentations were offered at the two-day Steering Committee meeting. All IPHE member countries reported on recent

activities and accomplishments in their hydrogen and fuel cell research, development, demonstration and deployment programs. These reports continue to reinforce the deep and broad national commitments to the hydrogen economy. Complete reports for each IPHE member can be found at www.iphe.net. Some highlights from the country reports were:

- Australia presented an 85-page compendium of their hydrogen and fuel cell activities;
- Brazil reported on their stationary fuel cell research and development activities;
- Canada updated members on their effort to complete a national hydrogen technology roadmap that complements their existing fuel cell technology roadmap;
- China reported to fellow members their efforts to employ and demonstrate hydrogen and fuel cell technologies at the 2008 Summer Olympics, as well as presented their national hydrogen vision and roadmap;
- the European Commission reported on their Hydrogen Platform activities;
- the U.S. reported considerable progress in the implementation of the President's \$1.2 Hydrogen Fuel Initiative;
- Italy updated members on their efforts to establish Hydrogen Parks in five key cities;
- Japan offered a thorough report on their research and development with hydrogen and fuel cell activities in the transport and stationary sectors.

13. Nuclear Energy Production of Hydrogen: The technical theme of the SC meeting was nuclear energy production of hydrogen. Public and private sector speakers from Canada, France, Japan, and the U.S. offered compelling evidence that nuclear energy production of hydrogen is technically feasible and economically efficient. Traditional tensions associated with nuclear energy technology discussions at multilateral meetings did not disrupt the Paris IPHE SC meeting. IPHE members departed the SC meeting with an improved understanding and appreciation of the important role nuclear energy may play in future production of hydrogen for transport and stationary applications.

14. IPHE Calendar: The Steering Committee, working with IPHE Secretariat and the IPHE ILC, developed a calendar of future meetings. The revised and updated IPHE calendar includes: IPHE SC, September 14-15, 2005, Kyoto, Japan; IPHE ILC, October 17-19, 2005, Shanghai, China; IPHE SC, March 28-29, 2006, Vancouver, Canada; and IPHE ILC, June 18-19, 2006, Lyon, France. The U.K. and Iceland offered to host IPHE meetings in late 2006 or 2007.

15. IPHE Press Event: January 26, on the margins of the IPHE SC meeting, Embassy Paris officials organized a formal press briefing and Q&A session, where DOE Assistant Secretary Garman and DOT Assistant Secretary Frankel spoke

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to specialized media on the merits of a hydrogen economy. The environmental and scientific journalists present at the press conference included right-of-center daily *Le Figaro's* (circulation: 360,000) Caroline de Malet, Martine Kis from the monthly publication *Le Courrier des Maires* (circulation: 13,467) which is aimed at informing elected officials throughout France, Guillaume Mincent from the monthly *Environnement Magazine* (circulation: 12,037) and Nathalie Jaupart from the bi-monthly *La Forêt Privée* (circulation: 3,000) devoted to forest conservation and industry. These journalists were interested in learning the extent of USG-sponsored and privately-sponsored research into practical applications of hydrogen-fueled cars and hydrogen as a practical, alternative, cost-effective source of power for individual homes and businesses.

16. What's next for IPHE? The fourth meeting of the IPHE Implementation-Liaison (ILC) Committee will convene in Rio de Janeiro, Brazil, from March 22 to 23, 2005. The Brazilian Ministry of Mines and Energy and Ministry of Science and Technology will host the IPHE ILC meeting together with private sector partners. The IPHE ILC meeting agenda is under development by the IPHE Secretariat.

17. The Government of Brazil will host two important meetings on the margins of the IPHE ILC. The Brazilian Solid Oxide Fuel Cell Network will host a technical workshop on March 20, 2005, and Brazilian Mines and Energy Minister Rouseff has invited all Latin American countries to participate in the Latin American Forum on Hydrogen and Fuel Cells on March 21, 2005.

18. For more information regarding IPHE activities, please contact the IPHE Secretariat at iphe@ee.doe.gov. The IPHE Secretariat and the Departments of Energy, Transportation

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and State appreciate the assistance and cooperation of posts

to help further the implementation of IPHE activities.

119. This cable was cleared by DOE Dr. Robert Dixon.

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